



Based on 25 years of innovation excellence, Arbutus delivers the very best in purpose-built audit analytics technology to meet the exacting demands of today's business environment. Auditors, business analysts, and fraud investigators rely on Arbutus audit software to enhance their testing, analysis, and compliance capabilities.

## What's New in Analyzer Version 5.4 Documentation – June 2012

### Procedures

A full colorized procedure editor is now available. Features include:

- Line numbering allows easy identification of the current position, and point of an error, as well as easy reference with other editors
  - Full support for typical editor keystroke options
  - Auto-wrapping of long lines allows the entire command to be seen
  - Colorizing of commands, keywords, comments, functions, constants, macros and errors makes the syntax more visual, assisting with reviewing, editing and debugging procedures
  - All colors are customizable through Tools/Options/Editor, to optimize for your preferences or display
  - Other characteristics of the editor are also configurable, including the size of tabs, the amount of indent for wrapped lines and the initial text size
  - Colorized keywords are command-specific, allowing more robust syntax checking
  - Groups are automatically indented, for clarity
  - Step mode allows procedures to be run one command at a time. This is ideal for testing procedures during development or for diagnosing errors
  - Breakpoints allow a procedure to be run until a specific point is reached, at which time the procedure is paused and placed in step mode. Multiple breakpoints are supported, across multiple procedures
  - Matching parentheses are highlighted to help ensure correct expression syntax
- Procedure syntax errors now report the line number in the procedure that caused the error.

### Color Picker

Several aspects of the software now support customizable colors. These include the Procedure Editor, View columns and View triggers. Each of these is specified using the new color picker, which allows selection of both text and background colors, as appropriate.

### Views

“Triggers” allow conditions to be placed in the View, so that individual cells display in different colors, depending on criteria you specify. If the criterion is met, then the cell is highlighted in a customizable color or has a customizable text color. Triggers can be used to visually alert you to common anomalies in your data (like transactions with invalid dates or missing information) as well as to highlight business rules (like balances above the credit limit or cash transactions).

Related and computed fields may now be distinctly identified in the View. The colors are customizable, and allow easy identification of non-physical fields.

### Installation

- Automatic checking for updates is now supported
- Manual activation ensures the software is now supported, even when access to the Internet is unavailable
- Concurrent users licensing is now available

# What's New in Analyzer Version 5.4

## Overview

Arbutus now allows Refreshable, Relational, and Related “tables” or “table layouts” to be distinctly shown in the Overview, helping you understand the characteristics of your tables at a glance. Alternate Command Logs may now be shown in the Overview, allowing easier switching between Log files. Hidden folders have been added to augment the existing hidden objects. This allows whole groups of objects to be hidden from the user interface, while still being available for use.

## Main Menu

All Shared Folder procedures are now included in the Applications menu, allowing easy deployment of procedures and processes across workgroups.

## Import Command/Wizard

Improved editing of the IMPORT command allows more robust and flexible manual changes:

- You can now edit the command line SQL to include custom SQL syntax
- You can now easily add or remove fields, as well as select all fields

## Data Definition Wizard

Multiple tables can be defined at the same time with Excel spreadsheets, Access databases, and relational data sources. ODBC data sources now include registered data sources as well as locally installed ODBC drivers.

## Functions

Added new date and time functions:

- **YEAR()** returns the year portion of DateTime as a number
- **MONTH()** returns the month portion of DateTime as a number
- **DAY()** returns the day portion of DateTime as a number
- **HOURLY()** returns the hour portion of DateTime as a number
- **MINUTE()** returns the minute portion of DateTime as a number
- **SECOND()** returns the second portion of DateTime as a number
- **CMON()** returns the name of the month for supplied DateTime
- **EOMONTH()** returns the end of the month for the supplied DateTime
- **NTOD()** returns the date constructed from a year, month and day
- **NTOT()** returns the time constructed from an hour, minute and second

The **ARRANGE()** function now allows arranging of words, as well as letters. Use of this optional parameter causes the ARRANGE() function to arrange the string based on whole words in descending order, rather than by individual characters in descending order. Alleviates comparison problems like “West 49th Street” and “49th Street West”, because both of these strings would return “West Street 49th”.

The **NORMALIZE()** function now always places whole words in descending order separated by blanks, improving comparison accuracy.

## JOIN Command

Auto-harmonization of key fields (character-to-character or character-to-numeric) is now supported.

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## ARBUTUS SOFTWARE INC.

#270-6450 Roberts Street,  
Burnaby, BC V5G 4E1 Canada

Toll Free: 1.877.333.6336  
**T:** 604.437.7873 | **F:** 604.437.7872

### General Inquiries:

info@ArbutusSoftware.com

### Technical Support:

support@ArbutusSoftware.com